

FCC ID: 2A92JGD-AP08 Report No.: 18220WC30255902 Page 1 of 33

FCC Test Report

Applicant

Guangzhou Golden Diamond Electric Appliance Co., Ltd

Address

43 Lianglong South Street, Oversea Chinese Science and Technology Industrial Park, Huashan Town, Huadu District, Guangzhou, 510800, China

Product Name : Video speaker

Report Date

Jan. 31, 2024



Shenzhen Anbotek Compliance Laboratory Limited

Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755-26066440 Fax:(86)0755-26014772 Email:service@anbotek.com





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Applicant	: Guangzhou Golden	Diamond Electric Appliance Co., Ltc	sotek Anbotek
Manufacturer	: Guangzhou Golden	Diamond Electric Appliance Co., Ltc	hotek Anbotek
Product Name	: Video speaker	abotek Anbotek Anbotek	
Test Model No.	: GD-AP08		k Anbotek P
Reference Model No	o. : N/A	Anbotek Anbote Ant	
Trade Mark	: Pronext	ak Anbotek Anbo	
Rating(s)	: Input: 13.5V-4A (w	ith DC 11.1V, 7200mAh battery insic	de) botek Anbo

Test Standard(s)

47 CFR Part 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10-2020

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: Date of Test:

Prepared By:

Nov. 30, 2023 Nov. 30, 2023 ~ Jan. 30, 2024

Nian Xiu Chen

(Nianxiu Chen)

Bolward pan

Approved & Authorized Signer:

(Edward Pan)

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Revision History

Report Versi	ion		Description			Issued	I Date	
R00	otek Ant	otek	Original Issue.	Anbotek	Anbore.	Jan. 31	, 2024	Anbote
Anboi An	Anbotek	Anboten	Anto	Anbotek	K Anbo	botek	Anbotek	Anbe
on Anbotek	Anboten	Antonbore	k Anbotek	Aupor	otek pr	anbotek	Anboten	A Yo

Anbc

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1. General Information

1.1. Client Information

Applicant	:	Guangzhou Golden Diamond Electric Appliance Co., Ltd
Address	:	43 Lianglong South Street, Oversea Chinese Science and Technology Industrial Park, Huashan Town, Huadu District, Guangzhou, 510800, China
Manufacturer	:	Guangzhou Golden Diamond Electric Appliance Co., Ltd
Address	:	43 Lianglong South Street, Oversea Chinese Science and Technology Industrial Park, Huashan Town, Huadu District, Guangzhou, 510800, China
Factory	:	Guangzhou Golden Diamond Electric Appliance Co., Ltd
Address	:	43 Lianglong South Street, Oversea Chinese Science and Technology Industrial Park, Huashan Town, Huadu District, Guangzhou, 510800, China

1.2. Description of Device (EUT)

		all the second sec
Product Name	:	Video speaker
Test Model No.	:	GD-AP08
Reference Model No.	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	Pronext
Test Power Supply	:	AC 120V, 60Hz for Adapter/ DC 11.1V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Manufacturer: SHENZHEN FUJIA APPLIANCE CO.,LTD MODEL: FJ-SW20171354000 INPUT: 100-240V~ 50/60Hz 1.5A Max OUTPUT: 13.5A-4.0A 54.0W
RF Specification		
Operation Frequency	•	2402~2480MHz
Number of Channel	:	40 ^{ek} Anbolek Anbolek Anbolek Anbolek Anbolek
Modulation Type	:	GFSK Anbouek Anbolek Anbolek Anbolek Anbolek
Antenna Type	:	Monopole Antenna
Antenna Gain(Peak)	:	2.16dBi
		ation are provided by customer. eatures description, please refer to the manufacturer's specifications or the

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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Anbotek Anboter	And hotek Anbotek	Anbor An nborek	Anboten And hote

1.4. Operation channel list

Operation Band:

	11.4 TOOL	N.	Luct ^{er}		. ex	100, 100 h	V.
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
AT. Ootek	2402	And 10 tek	2422	20	2442	30	2462
1 novek	2404	11	2424	21	2444	31 motor	2464
e ^k 2	2406 1001°	12 ⁴⁰⁰	otek 2426 Mot	22 Anbo	2446	rek 32 Anbr	2466
Jek 3	bote ² 2408 prio	13	2428	poter 23 An	2448	bote ^k 33 M	2468
4	2410	n ^{bort} 14	2430	24 Anto 24	2450	34	2470
And 5 tek	2412	Anboit	2432	25	2452	35	2472
And 6 tek	2414	16	2434	26	2454	36 porek	2474
7	2416	17 ^{nbo}	2436	K 27 Anbot	2456	ek 37 Anbo	2476
8 And	2418	tek 18 And	2438	otek 28 Ant	2458	ote ^k 38	2478 M
9 An	2420	ip ^{otek} 19 P	2440	nbot 29	2460	39	2480
botto	P.M.	Net	AND .	No.	botto	Pu.	u oter

1.5. Description of Test Modes

2	Pretest Modes	Descriptions
3	k Anbote TM1 Anbote tek	Keep the EUT connect to AC power line and works in continuously transmitting mode (BLE 1M)
	otek Anto TM2 Antoon	Keep the EUT connect to AC power line and works in continuously transmitting mode (BLE 2M)

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1.6. Measurement Uncertainty

	Uncertainty	Parameter
her And hotek	3.4dB	Conducted emissions (AMN 150kHz~30MHz)
hoter And	925Hz	Occupied Bandwidth
Anbors And	0.76dB	Conducted Output Power
Anbor An	0.76dB	Power Spectral Density
Anbor	1.24dB	Conducted Spurious Emission
potek Anborek	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB	Radiated spurious emissions (above 1GHz)
Anboren Anb	3.53dB	Radiated emissions (Below 30MHz)
dB Anbore And	Horizontal: 3.92dB; Vertical: 4.52dB	Radiated spurious emissions (30MHz~1GHz)
32.	Horizontal: 3.92dB; Vertical: 4.52dB luated according to AB/WI-RF-F-032.	Radiated spurious emissions (30MHz~1GHz) The measurement uncertainty and decision risk eva This uncertainty represents an expanded uncertaint level using a coverage factor of k=2.

1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	oten Anby stek	ibotek P At
Conducted Emission at AC power line	Mode1,2	Anbot P
Occupied Bandwidth	Mode1,2	AntPrek
Maximum Conducted Output Power	Mode1,2	Robotek
Power Spectral Density	Mode1,2	ek P Anbo'
Emissions in non-restricted frequency bands	Mode1,2	ootek P Ar
Band edge emissions (Radiated)	Mode1,2	A ⁹ ^{todt}
Emissions in frequency bands (below 1GHz)	Mode1,2	AnbPiek
Emissions in frequency bands (above 1GHz)	Mode1,2	Photek
Note: P: Pass N: N/A, not applicable	Anbotek Anbot	ak Anbot

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1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited. 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
 - 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
 - 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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1.10. Test Equipment List

Conducted Emission at AC power line

200	, Pr. V	note. Dur	.0	4	Pr. V	100
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
<u>к</u> 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2023-10-12	2024-10-11
otek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2023-10-12	2024-10-11
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A Anbo	rek /Anborek	Anbo, ek Anborek
	tothe short	p.c.	der MP		with the	

Maxir Powe	pied Bandwidth num Conducted Out r Spectral Density sions in non-restricte	oter And Lak	Anbotek A Anbotek	Anbotek Anbotek	Anbotek An Anbotek	botek Anbo Anbotek An
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Anto IAnto	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/Acnbo	2023-10-16	2024-10-15
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
An4otel	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
5.00	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6 P	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22

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		Anboro	Anotek	Anbotek	Anbo
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	And	Anbotek
Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24
	sions in frequency ba Equipment EMI Test Receiver EMI Preamplifier Double Ridged Horn Antenna EMI Test Software EZ-EMC Horn Antenna Spectrum Analyzer	EMI Test ReceiverRohde & SchwarzEMI PreamplifierSKET ElectronicDouble Ridged Horn AntennaSCHWARZBECKEMI Test Software EZ-EMCSHURPLEHorn AntennaA-INFOSpectrum AnalyzerRohde & Schwarz	sions in frequency bands (above 1GHz)EquipmentManufacturerModel No.EMI Test ReceiverRohde & SchwarzESR26EMI PreamplifierSKET ElectronicLNPA- 0118G-45Double Ridged Horn AntennaSCHWARZBECKBBHA 9120DEMI Test Software EZ-EMCSHURPLEN/AHorn AntennaA-INFOLB-180400- KFSpectrum AnalyzerRohde & SchwarzFSV40-NAmplifierTalent MicrowaveTLLA18G40	Sions in frequency bands (above 1GHz)EquipmentManufacturerModel No.Serial No.EMI Test ReceiverRohde & SchwarzESR26101481EMI PreamplifierSKET ElectronicLNPA- 0118G-45SKET-PA- 002Double Ridged Horn AntennaSCHWARZBECKBBHA 9120D02555EMI Test Software EZ-EMCSHURPLEN/AN/AHorn AntennaA-INFOLB-180400- KF8Spectrum AnalyzerRohde & SchwarzFSV40-N101792AmplifierTalent MicrowaveTLLA18G40 2302280223022802	sions in frequency bands (above 1GHz)EquipmentManufacturerModel No.Serial No.Last Cal.EMI Test ReceiverRohde & SchwarzESR261014812023-10-12EMI PreamplifierSKET ElectronicLNPA- 0118G-45SKET-PA- 0022023-10-12Double Ridged Horn AntennaSCHWARZBECKBBHA 9120D025552022-10-16EMI Test Software EZ-EMCSHURPLEN/AN/A/Horn AntennaA-INFOLB-180400- KFJ21106062

Emissions in frequency bands (below 1GHz)

- 00	biene in nequency be					
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	Pre-amplifier	SONOMA	310N	186860	2023-10-12	2024-10-11
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
Antore	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5.00	EMI Test Software EZ-EMC	SHURPLE	N/A N/A	N/A N/A	Anbo	k Anbotek

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2. Antenna requirement

		Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to
		ensure that no antenna other than that furnished by the responsible party
	Test Requirement:	shall be used with the device. The use of a permanently attached antenna or
		of an antenna that uses a unique coupling to the intentional radiator shall be
e		considered sufficient to comply with the provisions of this section.

2.1. Conclusion

The antenna is a **Monopole Antenna** which permanently attached, and the best case gain of the antenna is **2.16 dBi**. It complies with the standard requirement.

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3. Conducted Emission at AC power line

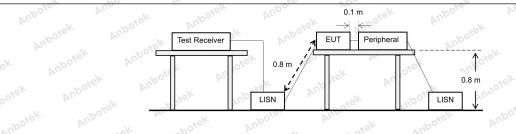
Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the r back onto the AC power line on ar band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage that ny frequency or frequencie at exceed the limits in the fo	nected to the at is conducted s, within the ollowing table, as		
botek Anbort	Frequency of emission (MHz)	Conducted limit (dBµV)	Allingtok		
	Anbo k sotek Anbote	Quasi-peak	Average		
Anbore All	0.15-0.5	66 to 56*	56 to 46*		
Test Limit:	0.5-5 tek noote And	56 M	46		
	5-30 mo	60	50 ten And		
	*Decreases with the logarithm of the frequency.				
Test Method:	ANSI C63.10-2020 section 6.2	An botek Anboten	Anno stek		
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un				

3.1. EUT Operation

Operating Environment:

Anbo	1: TX mode(BLE 1M): Keep the EUT connect to AC power line and works in
Test mode:	continuously transmitting mode (BLE 1M) 2: TX mode(BLE 2M): Keep the EUT connect to AC power line and works in
abotek Anborc	continuously transmitting mode (BLE 2M)

3.2. Test Setup



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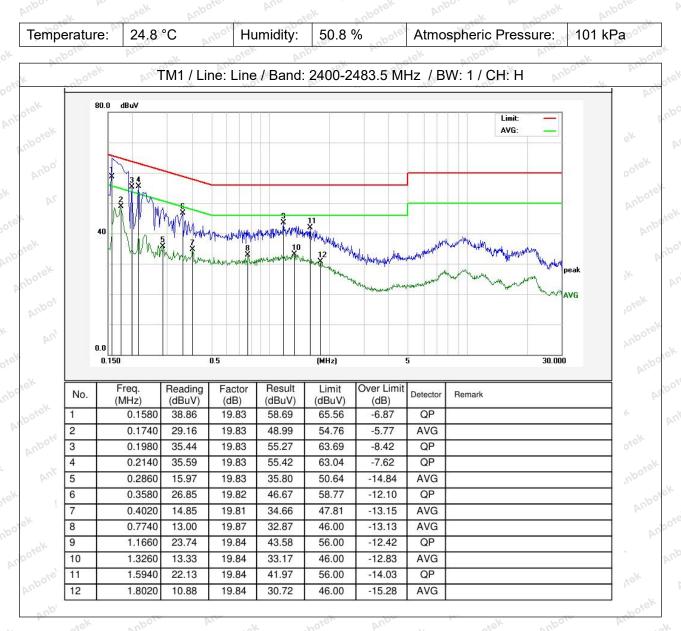
Address:1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755-26066440 Fax:(86)0755-26014772 Email:service@anbotek.com





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3.3. Test Data

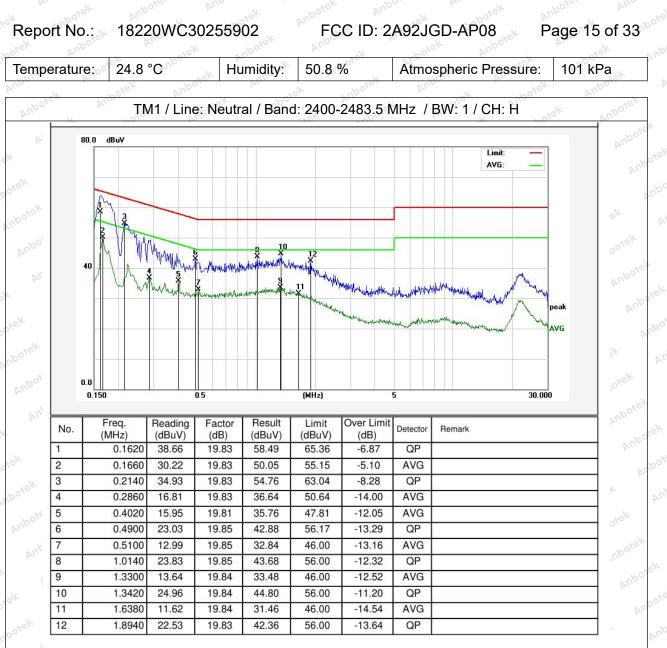


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Note:Only record the worst data in the report.

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4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek	11.8.1 Option 1The steps for the first option are as follows:a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
And Anbotek Anbote	 b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold.
otek Anbore An	e) Sweep = No faster than coupled (auto) time.f) Allow the trace to stabilize.
Procedure:	g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value.
tek Anbotek Anbo	11.8.2 Option 2
Anbotek Anbotek A	The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW \ge 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function.
Anbotek Anbotek Anbotek Anbotek	When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.

4.1. EUT Operation

Operating Env	ironment:					,
Test mode:	1: TX mode(BLE continuously tran 2: TX mode(BLE continuously tran	nsmitting mode 2M): Keep the	e (BLE 1M) e EUT connec	ek		nbote

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4.2. Test Setup

Anbotek		EUT	Spe	ctrum Analyzer	Pro		Anbotek	
k Anbotek	Anborc	A	Anboter	And	Anborek	Anbotek	Anbor	

4.3. Test Data

Temperature:	25.4 °C	-xek	Humidity:	48 %	Atmospheric Pressure:	101 kPa
AV .	- No	~0.	12×1	_201	No. No.	~O.

Please Refer to Appendix for Details.

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5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit: Anborek Anborek Test Limit: Anborek Anborek Anborek Anborek Anborek Anborek Anborek	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

5.1. EUT Operation

Operating Env	vironment:
---------------	------------

Operating Envir	onment:		0, b.	hotek	Anboren	And	× .
Test mode:	1: TX mode(BLE continuously trans 2: TX mode(BLE continuously trans	smitting mode 2M): Keep th	e (BLE 1M) e EUT conne	Anbore			

AUP

5.2. Test Setup

PI.		Anbo E		Spectrum	Analyzer			Anbote	
botek	Test Data	Anbor	Anboitek	Anboten	Anbotek	Anbotek	Anbotek	Pupe	

5.3.	Test	Data

Temperature:	25.4 °C	AUDT	Humidity:	48 % 📈	1001- 1001-	Atmospheric Pressure:	101 kPa	ex.
DUT	*OK	200	he.	N.	~0 ⁷ 0~	DUP	tek abu	

Please Refer to Appendix for Details.

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6. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

6.1. EUT Operation

Operating Envi	ronment:					abotek		
Test mode:	continuou 2: TX mo	usly trans de(BLE 2	1M): Keep th mitting moc 2M): Keep th mitting moc	le (BLE 1 ne EUT c	M) onnect t	AUDO	- V-	

6.2. Test Setup

botek l		EUT		Spectrum Ana	lyzer	
And	Anbotek	Ann	abotek	Anbo.	A" botek	Anbore

6.3. Test Data

Temperature:	25.4 °C	Humidity:	48 %	Atmosp	heric Pr	essure:	101 kPa	711

Please Refer to Appendix for Details.

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7. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Anbotek Anbotek Anbotek Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

7.1. EUT Operation

Operating Environment:

. D// C	
et spotek	1: TX mode(BLE 1M): Keep the EUT connect to AC power line and works in
Test mode:	continuously transmitting mode (BLE 1M)
Test mode:	2: TX mode(BLE 2M): Keep the EUT connect to AC power line and works in
No K N	continuously transmitting mode (BLE 2M)

7.2. Test Setup

Anboten	EUT	 Spectru	m Analyze	ər		Anbotek
	b22.	aboter	Ano-	~	. otek	

7.3. Test Data

Temperature:	25.4 °C	Anbe	Humidity:	48 %		Atmospheric Pressure:	101 k	(Pa
DUP	No.		Pr.		~0 ¹⁰	DUP	.ex	

Please Refer to Appendix for Details.

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8. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions in § 15.205(a), must also comp cified in § 15.209(a)(see § 15.2	ly with the
Anbotek Anbot Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Anbotek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 30
Anbotek Anbo	1.705-30.0 30-88 88-216	30 100 ** 150 **	30 3 3
Annotek Anbote	216-960 Above 960	200 ** 500	3 boten And 3 botek And
Test Limit: Drek Anborek Anbor	intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a these three bands are base detector.	e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing	e located in the 470-806 MHz. aed under other band edges. measurements uency bands 9– ssion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		ek Anboit
Procedure:	ANSI C63.10-2020 section	6.10.5.2	otek Anbotek

8.1. EUT Operation

Operating Envir	onment:	Anbotek	Anbo	h. botek	Anbore	Ant	24
Test mode:	1: TX mode(BLE continuously tran 2: TX mode(BLE continuously tran	nsmitting m 2M): Keel	node (BLE 1 p the EUT co	M) onnect to AC	. p.,		sk sotek

Shenzhen Anbotek Compliance Laboratory Limited

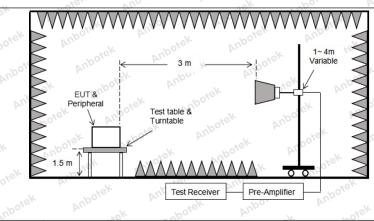
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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8.2. Test Setup



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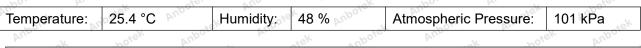
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com

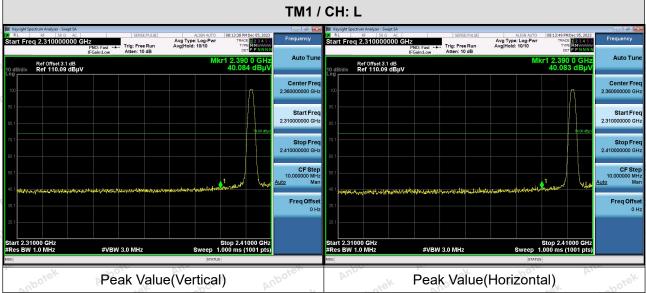


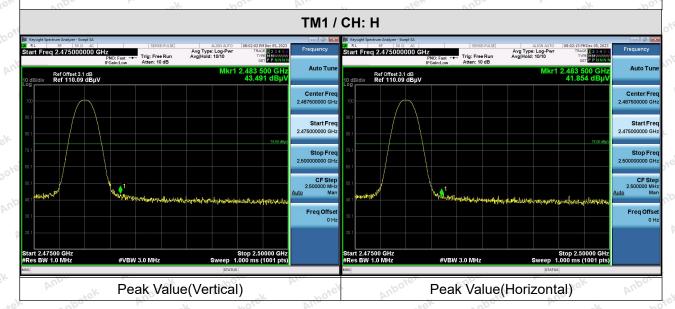


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8.3. Test Data







Note:

1. When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.

2. During the test, pre-scan all modes, the report only record the worse case(BLE_1M) mode.

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9. Emissions in frequency bands (below 1GHz)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions in § 15.205(a), must also comp cified in § 15.209(a)(see § 15.2	ly with the wo
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
otek unbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 30
Anbo kek sobotek	1.705-30.0	30	30
Anbor An hotek	30-88	100 **	3rek Anbore
Anboten Anb	88-216	150 **	3
hotek Anbore	216-960	200 **	3 bote And
Test Limit:	Above 960	∣ 500 ragraph (g), fundamental emissi	3 potek pho
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek tek Anbotek Anbote tek Anbotek Anbo	frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a	ng under this section shall not b z, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing	470-806 MHz. ed under other and edges. measurements uency bands 9– sion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		ek Anbote.
Procedure:	ANSI C63.10-2020 section	6.6.4 ek hotek Ant	Dor An hotek

9.1. EUT Operation

Operating Envir	ronment:	Anbotek	Anbo	botek	Anbore	Ann	20
Test mode:	1: TX mode(BLI continuously tra 2: TX mode(BLI continuously tra	nsmitting n E 2M): Kee	node (BLE 1 p the EUT co	M) onnect to AC	. Pr.		k otek

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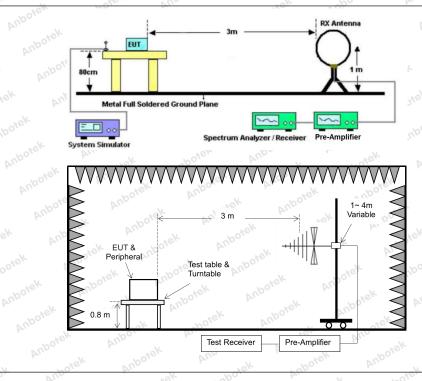
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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9.2. Test Setup



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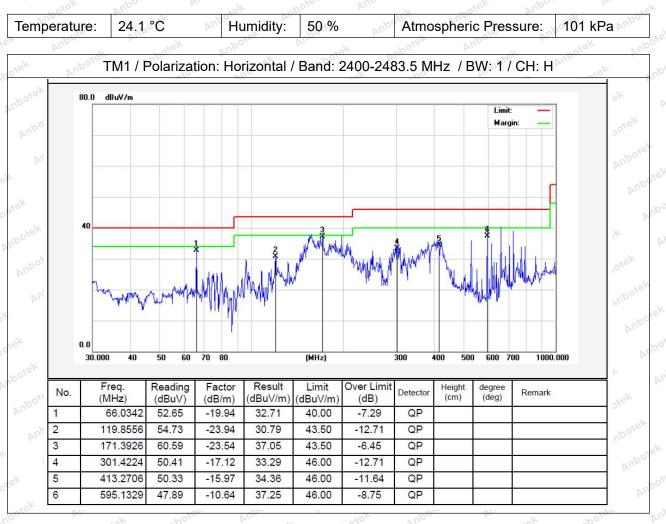
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





9.3. Test Data

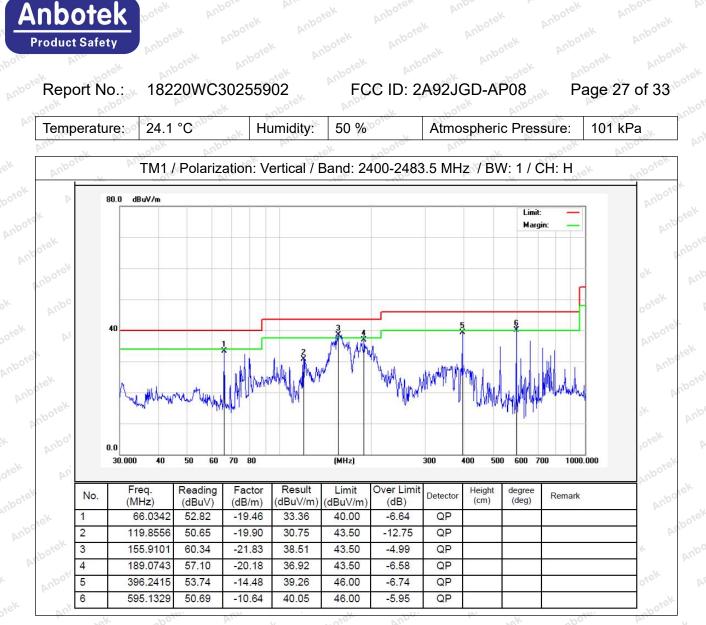
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.



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Note:Only record the worst data in the report.

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10. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted background by the radiated emission $\overline{b}(c)$.	
Anbotek Anbon	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
unbotek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 30
Anbotek Anbotek	1.705-30.0 30-88	30 100 **	30
Anbore Ant	88-216 216-960 Above 960	150 ** 200 ** 500	3
Test Limit: orek Anborek	intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a these three bands are base detector.	e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing	e located in the 470-806 MHz. ted under other pand edges. measurements uency bands 9– ssion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		ek Anbore
Procedure:	ANSI C63.10-2020 section	6.6.4	port Ann

10.1. EUT Operation

Operating Envir	ronment:	Anbotek	Anbo	h. botek	Anbore	Ann	ek N
Test mode:	1: TX mode(BLE continuously tra 2: TX mode(BLE continuously tra	nsmitting n E 2M): Kee	hode (BLE 1N p the EUT co	/I) nnect to AC			

Shenzhen Anbotek Compliance Laboratory Limited

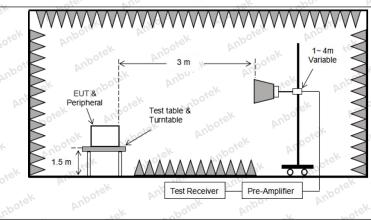
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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10.2. Test Setup



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10.3. Test Data

Temperature:	24.1 °C	Humidity:	50 % proof	Atmospheric Pressure:	101 kPa
20V	de de). P.		600	K NO.

		-	TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.90	15.27	44.17	74.00	-29.83	Vertical
7206.00	28.89	18.09	46.98	74.00	-27.02	Vertical
9608.00	29.89	23.76	53.65	74.00	-20.35	Vertical
12010.00	Anbote * Ar	in tek	hotek Anb	74.00	otek Anbott	Vertical
14412.00	anbo*ek	Anbo	hotek A	74.00	stek ont	Vertical
4804.00	28.53	15.27	43.80	74.00	-30.20	Horizontal
7206.00	29.58	18.09	47.67	74.00	-26.33	Horizontal
9608.00	28.30	23.76	52.06	74.00	-21.94	Horizontal
12010.00	potek * Anbo	ek ho	rek Anbote.	74.00	, nbotek	Horizontal
14412.00	botek* An	pore Ant	stek anbo	74.00 ⁰⁰⁰	alt bote	Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	17.17	15.27	32.44	54.00	-21.56	Vertical
7206.00	17.94	18.09	36.03	54.00	-17.97	Vertical
9608.00	19.36	23.76	43.12	54.00	-10.88	Vertical
12010.00	notet.	Anboten An	sek an	54.00 M ⁰⁰	-K - N	Vertical o
14412.00	Ant * tek	nbotek	Anbo, Ar	54.00	bote. And	Vertical
4804.00	16.86	15.27	32.13	54.00	-21.87	Horizontal
7206.00	18.61	18.09	36.70	54.00	-17.30	Horizontal
9608.00	17.81 bote	23.76	41.57	54.00	-12.43	Horizontal
12010.00	stek *	otek Anbor	ak not	54.00	And	Horizontal
14412.00	nbo *	botek Ant	ore And	54.00	ek Anbo	Horizontal
		111-	105	0 V V V V V V V V V V V V V V V V V V V	N	10 010

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		٦	ГM1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	28.45	15.42	43.87	74.00	-30.13	Vertical
7320.00	28.86	18.02	46.88	74.00	-27.12	Vertical
9760.00	29.39	23.80	53.19	74.00	-20.81	Vertical
12200.00	ek * abotek	Anbo.	hotek	74.00	Ann	Vertical
14640.00	****	rek Anbore	Ann	74.00	Anbo	Vertical
4880.00	28.34	15.42	43.76	74.00	-30.24	Horizontal
7320.00	29.45	18.02	47.47	74.00	-26.53 vo ^{rt}	Horizontal
9760.00	28.02	23.80	51.82	74.00 M	-22.18	Horizontal
12200.00	* * otek	Anbore	And	74.00	upo. A.	Horizontal
14640.00	Art atek	nbotek	Anbort	74.00	Anborak	Horizontal
Average value:				·		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	17.26	15.42	32.68	54.00	-21.32	Vertical
7320.00	17.80	18.02	35.82	54.00	-18.18	Vertical
9760.00	19.21	23.80	43.01	54.00	-10.99	Vertical
12200.00	k Anbor	All	Anboten	54.00	abotek	Vertical
14640.00	otek * Anboth	AUD .	ek abotek	54.00	pr	Vertical
4880.00	16.97	o ^{rek} 15.42 n ^{boo}	32.39	54.00	-21.61	Horizontal
7320.00	18.96	18.02	36.98	54.00	-17.02	Horizontal
9760.00	18.11	23.80	41.91 M	54.00	601-12.09 pm	Horizontal
12200.00	Anboten	And	abotek	54.00 ⁶	potek A	Horizontal
14640.00	* botek	Anborer	Artek	54.00	Anthe	Horizontal

Anbe

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tek Anbore				hotek	Anbore A	-tek
		-	ГM1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
4960.00	28.58	15.58	44.16	74.00	-29.84	Vertical
7440.00	29.02	17.93	46.95	74.00	-27.05	Vertical
9920.00	30.09	23.83	53.92	74.00	-20.08	Vertical
12400.00	A* wotek	Anboten	And	74.00	Anbor	Vertical
14880.00	* And	kek nbotel	Anbo	74.00	Anbore	Vertical
4960.00	28.48 M	15.58	44.06	74.00	-29.94	Horizonta
7440.00	29.66	17.93	47.59	74.00	-26.41	Horizonta
9920.00	28.40	23.83	52.23	74.00	-21.77	Horizonta
12400.00	And * * ek	abotek	Anbor	74.00	Inboten Ant	Horizonta
14880.00	Arthore	hotek	Anbore	74.00	anbotek	Horizonta
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
4960.00	18.38	15.58	33.96	54.00	-20.04	Vertical
7440.00	19.07	17.93	37.00	54.00	bote-17.00 pro	Vertical
9920.00	19.86	23.83	43.69	54.00	-10.31	Vertical
12400.00	K * abotek	Anbo	par sotek	54.00	Ano	Vertical

54.00

54.00

54.00

54.00

54.00

54.00

-20.27

-16.31

-11.91

14880.00

14880.00

4960.00

7440.00

9920.00

12400.00

Remark:

- 1. Result =Reading + Factor
- 2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

33.73

37.69

42.09

3. Only the worst case(BLE_1M) is recorded in the report.

*

18.15

19.76

18.26

*

* .0

15.58

17.93

23.83

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Vertical

Horizontal

Horizontal

Horizontal

Horizontal

Horizontal

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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report ----

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